

No.

200700249



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Alter srl.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Meccano'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this seventh day of April, in the year two thousand and eight.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

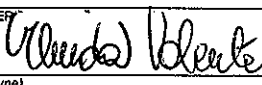
Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER OLTER srl.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME -		3. VARIETY NAME MECCANO	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) C.so Venezia, 93 14100 Asti ITALY		5. TELEPHONE (include area code) +39 0141 353807		FOR OFFICIAL USE ONLY PVPO NUMBER #200700249 FILING DATE MARCH 27, 2007	
		6. FAX (include area code) +39 0141 30205			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION ITALY		9. DATE OF INCORPORATION 06/30/1958	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Holland-Select Research B.V. P.O. Box 27 1619 ZG Andijk THE NETHERLANDS				FILING AND EXAMINATION FEES: \$ 4382.00 DATE 3/27/07 CERTIFICATION FEE: \$ 768.00 DATE 1/3/08	
11. TELEPHONE (include area code) +31 228 591578		12. FAX (include area code) +31 228 591755		13. E-MAIL INFO@HOLLAND-SELECT.NL	
14. CROP KIND (Common Name) GARDEN BEAN BORLOTTO		16. FAMILY NAME (Botanical) FABACEAE		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP PHASEOLUS VULGARIS		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (if "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (if "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Exhibit F. Declaration Regarding Deposit g. <input checked="" type="checkbox"/> Voucher Sample (3,000 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$4,382), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)					

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER * 		SIGNATURE OF OWNER	
NAME (Please print or type) ELINDA VALENTE		NAME (Please print or type)	
CAPACITY OR TITLE EXPORT-MANAGER	DATE 03/15/2007	CAPACITY OR TITLE	DATE

(See reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). **NEW:** With the application for a seed reproduced variety or by direct deposit soon after filing, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office
Telephone: (301) 504-5518 FAX: (301) 504-5291
General E-mail: PVPOmail@usda.gov
Homepage: <http://www.ams.usda.gov/science/pvpo/PVPindex.htm>

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SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870.
<http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A**Origin and Breeding History**

MECCANO is a bean variety that was developed by Olter Sementi Srl at Asti, Italy from a cross between two Olter non-commercial breeding lines, No. 53 and No. RM4. These non-commercial breeding lines had been derived from the following crosses:

LINE	PEDIGREE
NO. 53	ETNA/NOBEL
NO.RM44	ETNA/TAYLORS

The breeding objective was to develop a bean that was suitable for mechanical harvest by breeding for a uniform pod set and an upright plant habit. A further selection criterion was to breed for an attractive dark green foliage in order to distinguish this new variety easily by leaf colour rather than by other qualitative characteristics such as seed colour differences. Another criterion was to develop a bean with a pod length of 13-14 cm. All breeding work took place at the Olter Research Station in Asti, Italy.

In February 1999, crosses were made in a glasshouse between the two parents- No 53 and RM 44 to obtain 5 F1 seeds, which were coded 53/44. In June, the same year the 5 F1 seeds were planted in the glasshouse. Seed from the resulting plants were harvested in bulk and coded 1/53/44. In September, the same year, 100 F2 seeds were planted and resulting plants harvested in bulk and coded 2/53/44 without making any single plant selections.

In May 2000, the F3 generation containing 2500 seeds was planted in the field at Asti. Single plant selections were made, carefully following the set selection criteria. This resulted in 100 plants, which were coded 3/53/44. The remaining plants were destroyed because of poor plant habit, short pods and pale foliage.

In September 2000, 500 plants forming the F4 generation were established in the glasshouse by taking and planting 5 seeds from each of the 100 seeds of 3/53/44. No selection occurred at this stage and all individual plants were separately harvested resulting in 500 F5 breeding lines and these lines were coded as 4/53/44.

In April 2001, 10 seeds of each of the 500 F5 breeding lines were planted in a field trial at Asti. Out of these lines, only 3 lines appeared to have uniform dark green foliage and pods of 13-14 cm length. From these 3 lines, 10 single plant selections were made and harvested. These were coded as 5/53/44.

In September 2001, ten seeds of each of the 10 harvested F5 lines (representing a population of 100 plants) were grown in the glasshouse at Asti. All lines had dark green foliage and no segregation or variants in leaf colour were observed within the lines. However 6 lines producing longer pods (14-15 cm) were discarded. Each single plant of the remaining material was harvested separately and coded F6 6/53/44.

In April 2002, the F7 generation was planted in a field at Asti. In this case, 10 seeds of each of 40 breeding lines of the F6 generation (6/53/44) were planted. All breeding lines had dark green foliage and plants producing 13-14 cm pods. No segregation occurred. The 'F7 proved to be uniform and stable. Measurements regarding pod

3

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length and leaf colour were made. All material was uniform and stable and no variants were observed. All lines were harvested in bulk and coded MECCANO (7/53/44).

In May 2002, a similar trial like the one planted in April 2002 was planted at a different field at Asti. Measurements and observations of pod length, plant height and foliage colour were recorded. Similar results to those in the April 2002 trial were obtained. In this trial, like in the previous one, all plants were uniform and stable and no variants were found. After evaluation, seed was bulked with the harvest of April 2002 planting.

With four lines showing to be uniform and stable in the F6 (autumn 2001), confirmed by uniformity and stability in all lines of the following generation (replicate trials in F7 at spring 2002), uniformity and stability was proved for two generations. Therefore all lines of the May and April planting 2002 were bulk harvested and named MECCANO (7/53/44) by the summer of 2002.

Exhibit B**Statement of Distinctness**

MECCANO (Breeding line 53/44) is distinctly different from all other bean varieties. It is most similar to the variety SUPREMO. Both varieties are Olter Sementi Srl varieties. MECCANO is distinguishable from SUPREMO in the following ways:

Foliage color

MECCANO has darker green foliage compared to SUPREMO when color measurements are made 70 days after planting. Using The Royal Horticultural Society Color Chart the following color differences in leaf color have been found.

VARIETY	FOLIAGE COLOR
MECCANO	137A
SUPREMO	137B
NOBEL	137C
ETNA	137C

The foliage color of two other varieties (NOBEL and ETNA) is included for comparison purposes. These differences in foliage color are consistent when both varieties are evaluated and observed at different locations. Such evaluations include the observations that were made from two trials (planted on April 10 2002 and May 12 2002) at two different fields at Asti, Italy.

Pod length

MECCANO has a shorter pod length compared to SUPREMO. This has been demonstrated in two trials where MECCANO had a mean pod length of 13.60 cm compared to 18.05 cm for SUPREMO. From each variety and each trial the most mature pods from 70 plants were taken and measured. The pod length was measured 85 days after planting.

TRIAL	PLANTING DATE	SITE	#PODS MEASURED PER VARIETY	MECCANO POD LENGTH (cm)	SUPREMO POD LENGTH (cm)
1	4.10.2002	Asti	70	13.70	17.80
2	5.12.2002	Asti	70	13.50	18.30
			Mean	13.60	18.05

Assuming equal variances for the two samples, a two-samples mean comparison t-test was performed. The t-test showed significant differences in the mean pod lengths ($t=-16.53$, $P=0.0036$) of MECCANO and SUPREMO at the 95 % confidence level. Equally, construction of confidence intervals for each mean and for the

difference between the means showed that the confidence interval for the difference between the means extended from -5.61 to -3.29. Since the interval did not contain the value 0.0 there was a statistically significant difference between the mean pod lengths of MECCANO and SUPREMO.

Plant height

MECCANO is shorter compared to SUPREMO. Plant height data for both MECCANO and SUPREMO were collected from two trials 85 days after planting.

<i>TRIAL</i>	<i>PLANTING DATE</i>	<i>SITE</i>	<i>MECCANO PLANT HEIGHT (cm)</i>	<i>SUPREMO PLANT HEIGHT (cm)</i>
1	4.10.2002	Asti	43.20	53.40
2	5.12.2002	Asti	44.20	55.00
		MEAN	43.70	54.20

Measures of standardized skewness and standardized kurtosis for this data showed that the data statistics fell within the range expected for a normal distribution. A two-samples mean comparison t-test ($t = -11.13$, $p=0.008$) showed that there was a statistically significant difference between the mean plant height of MECCANO and that of SUPREMO at the 5% level of significance.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Garden Bean (*Phaseolus vulgaris* L.)

NAME OF APPLICANT (S) OLTER SRL.	TEMPORARY OR EXPERIMENTAL DESIGNATION -	VARIETY NAME MECCANO
ADDRESS (Street and No., or RD No., City, State, Zip Code, and Country) C.SO VENEZIA, 93 14100 ASTI ITALY		FOR OFFICIAL USE ONLY PVPO NUMBER #200700249

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., or) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties centered in the same trial. Measured data should be for SPACED PLANTS. Ranges should also be given. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: **RHS**. Please answer all questions for your variety; lack of response may delay progress of your application.

1. TYPE:

1 = Garden

2 = Flageolet

3 = Romano

2. MARKET MATURITY:

Days to Edible Pods

Heat Units to Edible Pods

Number of Days Earlier Than

Same As

Number of Days Later Than

Comparison Variety

Comparison Varieties

1 = Tender crop

3 = Gold rush

5 = Gitana

7 = Bush Blue Lake 290

8 = Other (Specify Below)

2 = Kentucky Wonder

4 = Slenderette

6 = Provider

VOLCANO

3. PLANT:

cm Spacing Between Plants in a Row

Habit

1 = Determinate

2 = Indeterminate, Erect Stem and Branches

3 = Indeterminate with Weak and Prostrate Stem and Branches

4 = Indeterminate Climbing Habit with Weak, Long, and Twisted Stem and Branches

cm Height

cm Shorter Than

Same Height As

Comparison Variety

cm Taller Than

Use Comparison Varieties from Section 2

3. PLANT: (continued)

25

cm Spread

20

cm Narrower Than

8

Same Width As

-**-**

cm Wider Than

-

Comparison Variety

Use Comparison Varieties from Section 2**3**

Pod Position: 1 = Low 2 = High 3 = Scattered

4

Bush Form (Illustrated Below)



1 = Spherical Bush Form



2 = Stem Bush Form



3 = Wide Bush Form



4 = High Bush Form

5 = Other (Specify) _____

4. LEAVES:

3

Surface: 1 = Dull 2 = Glossy 3 = Indeterminate

2

Size: 1 = Small (Gitana) 2 = Medium 3 = Large (Tender Crop)

3Color: 1 = Light Green (as Light or Lighter than Gold Rush)
2 = Medium Green
3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

5. ANTHOCYANIN PIGMENT:

(1 = Absent

2 = Present)

2

Flowers

1

Stems

1

Pods

2

Seeds

1

Leaves

1

Petioles

1

Peduncles

1

Nodes

6. FLOWER COLOR AND DAYS TO BLOOM:

8

Color of Standard

7

Color of Wings

7

Color of Keel

58

Days to 50% Bloom

Flower Color Choices

1 = White 2 = Cream

3 = Pink 4 = Lilac

5 = Purple 6 = Blue

7 = Other (Specify) RHS 76 B8 = RHS 85 A

7. PODS (Edible Maturity):

2Exterior Color:
(Fresh)

1 = Light Green (as Light or Lighter than Provider)

2 = Medium Green

3 = Dark Green (as Dark or Darker than Bush Blue Lake 290)

4 = Yellow (Gold Rush)

5 = Green-red Variegated (Horticultural)

6 = Other (Specify) _____

1

Processed Pods (Exterior Color):

1 = Light (Tender Crop)

2 = Dark (Bush Blue Lake 290)

1

Dry Pod Color:

1 = Buckskin (Sprite)

2 = Green, Persistent Chlorophyll (Hystyle)

7. PODS (continued):

1Cross Section Pod Shape:
(Middle of the Pod)

1 = Flat

2 = Heart (Pear)

3 = Round

4 = Figure Eight

**2**

Crease Back:

1 = Present

2 = Absent

1

Pubescence:

1 = None (Slenderette)

2 = Sparse

3 = Considerable (Provider or Sprite)

1

Constriction (Interlocular Cavitation):

1 = None

2 = Slight

3 = Deep

10

mm Spur Length

2

Fiber:

1 = None (Bush Blue Lake 290)

2 = Sparse

3 = Considerable (Sprite)

6

Number of Seeds per Pod

2

Suture String:

1 = Present

2 = Absent

2

Seed Development:

1 = Slow (Bush Blue Lake 290)

2 = Medium

3 = Fast (Provider)

1

Machine Harvest:

1 = Adapted

2 = Not Adapted

Percent sieve size distribution at optimum maturity for not-flat pods

4.76 to 5.76mm	5.76 to 7.34mm	7.34 to 8.34mm	8.34 to 9.53mm	9.53 to 10.72 mm	>10.72mm
%	%	%	%	%	%

3 Sieve

cm Length

mm width

Total mm Thickness

4 Sieve

cm Length

mm width

Total mm Thickness

5 Sieve

cm Length

mm width

Total mm Thickness

6 Sieve

cm Length

mm width

Total mm Thickness

8. SEED COLOR:

1

Seed Coat Luster:

1 = Shiny

2 = Dull

3 = Semi-Shiny

4 = Variable

2

Seed Coat:

1 = Monochrome

2 = Polychrome

11

Primary Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

BEIGE**11**

Secondary Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

RHS 59 A**4**

Seed Coat Pattern:

1 = Solid

1 = Splashed

3 = Mottled

4 = Striped

5 = Flecked

6 = Dotted

2

Hilar Ring:

1 = Absent

2 = Present

05

Hilar Ring Color:

1 = White

2 = Yellow

3 = Buff

4 = Tan

5 = Brown

6 = Pink

7 = Red

8 = Purple

9 = Blue

10 = Black

11 = Other

9. SEED SHAPE AND SIZE:

2

Hilum View:



1 = Elliptical



2 = Oval



3 = Round

4

Cross Section:

1 = Elliptical

2 = Oval

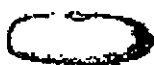
3 = Cordate

4 = Round

9. SEED SHAPE AND SIZE: (continued)

2

Side View:



1 = Oval to Oblong

2 = Round

3 = Reniform

53

gm/100 Seeds

--

gm/100 Seeds Lighter Than

--

gm/100 Seeds Same As

gm/100 Seeds Heavier Than

1

8

1

Comparison Variety

10. DISEASE RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

0

Anthracnose (*Colletotrichum lindemuthianum*)☐

Race Alpha

☐

Race Beta

☐

Race Gamma

☐

Race Delta

☐

Race Epsilon

☐

Race Lambda

☐

Race Kappa

☐

Specify Race _____

0

Bean Rust (*Uromyces appendiculatus*)☐

Race 38

☐

Race 39

☐

Race 40

☐

Race 44

☐

Race 45

☐

Race 46

☐

Race 49

☐

Race 50

☐

Race 51

☐

Race 52

☐

Race 54

☐

Race 56

☐

Race 59

☐

Specify Race _____

0

Powdery Mildew (*Erysiphe polygoni*)

0

Fusarium Root Rot (*Fusarium solani* f. sp. *phaseoli*)

0

Pythium Root Rot (*Pythium* spp.)

0

Aphanomyces Root Rot (*Aphanomyces euteiches*)

0

Rhizoctonia Root Rot (*Rhizoctonia solani*)

0

Pythium Blight or Aereal Pythium (*Pythium ultimum*)

0

Angular Leaf Spot (*Isariopsis griseola*)

0

Bacterial Wilt (*Corynebacterium flaccumfaciens* subsp. *flaccumfaciens*)

0

Bacterial Brown Spot (*Pseudomonas syringae* pv. *syringae*)

0

Common Bacterial Blight (*Xanthomonas campestris* pv. *phaseoli*)

0

Halo Blight (*Pseudomonas syringae* pv. *phaseolicola*)☐

Race 1

☐

Race 2

0

Clover Yellow Vein Virus (CYVV)

2

Bean Common Mosaic Virus (BCMV)

☐

BV1

☐

NY15

☐

NL2

☐

NL3

☐

NL4

☐

NL8

☐

Florida

☐

Idaho

☐

Mexican

☐

Western

☐

Type

2

Other (Specify)

OUTDOOR TEST BCMV RESISTANT

☐

Yellow Bean Mosaic Virus (BYMV)

☐

Curly Top Virus (CTV)

☐

Other (Specify Disease and Race or Strain _____)

11. INSECT RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

- | | |
|--|---|
| <input type="checkbox"/> Aphid | <input type="checkbox"/> Root Knot Nematode |
| <input type="checkbox"/> Leafhopper | <input type="checkbox"/> Seed Corn Maggot |
| <input type="checkbox"/> Lygus | <input type="checkbox"/> Thrips |
| <input type="checkbox"/> Pod Borer | <input type="checkbox"/> Weevils |
| <input type="checkbox"/> Other (Specify) _____ | |

12. PHYSIOLOGICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

- | | | |
|--|--------------------------------|----------------------------------|
| <input type="checkbox"/> Heat | <input type="checkbox"/> Cold | <input type="checkbox"/> Drought |
| <input type="checkbox"/> Air Pollution | <input type="checkbox"/> Ozone | |
| <input type="checkbox"/> Other (Specify) _____ | | |

13. COMMENTS: _____

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE**EXHIBIT E**
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) OLTER srl.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER —	3. VARIETY NAME MECCANO
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) C.so Venezia, 93 14100 Asti ITALY	5. TELEPHONE (Include area code) +39 0141 353 807	6. FAX (Include area code) +39 0141 30 205
7. PVPO NUMBER #200700249		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☐ YES☒ NO

OLTER srl. is based in ITALY

10. Is the applicant the original owner?

☒ YES☐ NOIf no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☒ NO

If no, give name of country

OLTER srl. is based in ITALY

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☒ NO

If no, give name of country

OLTER srl. is based in ITALY

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	TEMPORARY OR EXPERIMENTAL DESIGNATION
OLTER SRL.	C.SO VENEZIA, 93 14100 ASTI ITALY	-
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	VARIETY NAME
HOLLAND - SELECT RESEARCH B.V.	P.O. Box 27 1619 ZG ANDYK THE NETHERLANDS	MECCANO
		FOR OFFICIAL USE ONLY
		PVPO NUMBER #200700249

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

OLTER s.r.l.

14100 ASTI - Corso Venezia, 93

Tel. 0141/353807 - Fax 0141/30205

Perita s.v.a. 0007000055

Signature

Date

03/15/2007